

Abstract:

Please replace the marked-up abstract filed May 6, 2005, with the following clean text abstract:

A purification system of exhaust gases in an internal combustion engine purifies the exhaust gases by disposing a reaction furnace in an exhaust pipe of the internal combustion engine. The system includes a reactor including a honeycomb carrier having a plurality of carrier cells in the reaction furnace and plasma generating electrodes. On each of the plurality of carrier cells, a photocatalyst layer is coated. Further, the plasma generating electrodes, having a plurality of electrode cells, are mounted at an inner end and an outer end of the honeycomb carrier.